## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

## **Listing of Claims:**

Claim 1 (Currently amended): A method of sensing and indicating permanent state deviations via detection of temporary inner material oscillations, so-called acoustic emission, in real time in parts of importance for hardware design and construction, within existing production equipment, e.g., machinery, and/or monitoring of previously built-up infrastructure, characterised characterized in that one or more at least approximately 20 µm thick amorphous or nanocrystalline, magnetically heat-treated band elements with high permeability and relatively high magnetostriction are applied in freely suspended manner to a pertinent part, each respective band element being at least partly surrounded by multi-turn coils, of which either the band elements or the coils or both are set in a magnetised magnetized basic or initial state, such atomic movements (oscillations) which occur in any optional such state deviation being transferred to the respective band elements, the deviation either giving rise to a clearly measurable and detectable magnetic flow change (dB/dt) in the respective coil in proportion in said atomic movements, or a similarly measurable and detectable inductance change in the respective coil.

Claim 2 (Currently amended): An apparatus for sensing and indicating permanent state deviations via detection of temporary inner material oscillations, so-called acoustic emission, in real time in parts of importance for hardware design and construction, within existing production equipment, e.g. machinery, and/or monitoring of previously built-up infrastructure, characterised characterized in that it comprises one or more at least approximately 20 µm thick amorphous or nanocrystalline, magnetically heat-treated band elements of high permeability and relatively high magnetostriction, which band element/elements being freely suspended and surrounded by multi-turn coils of which either the band elements or the coils or both, are set in a magnetised magnetized basic or initial state, such atomic movements (oscillations) as occur in any optional such state deviation, in connection with being transferred to the band element/elements, either giving rise to a clearly measurable and detectable magnetic flow change (dB/dt) in the respective coil in proportion to the atomic movements, or a similarly measurable and detectable inductance change in the respective coil.

Claim 3 (Currently amended): The apparatus as claimed in Claim 2, characterised characterized in that the band element/elements with associated coil/coils are enclosed in an elastically deformable epoxy polymer.

Claim 4 (Currently amended): The apparatus as claimed in Claim 2 or 3, characterised claim 2, characterized in that the band element/elements and the coil/coils are glued to the object whose permanent state deviations are to be indicated.

Claim 5 (Currently amended): The apparatus as claimed in any of Claims 2 to 4, characterised claim 2, characterized in that the sensitivity thereof is different depending upon the orientation of the detection direction in relation to the rolling direction of the band element/elements, as a consequence of directional dependent properties in the material.

Claim 6 (Currently amended): The apparatus as claimed in any of Claims 2 to 5, characterised claim 2, characterized in that the band elements with associated coils are bridge- and amplifier connected in order to increase sensitivity and detectability, respectively.

Claim 7 (Currently amended): The apparatus as claimed in any of Claims 2 to 6, characterised claim 2, characterized in that it is realised realized as a glass breakage indicator.